

Partner Reported Opportunities (PROs) For Reducing Methane Emissions

# Require Improvements in the Quality of Gas Received from Producers

Compressors/Engines
Dehydrators 🗌
Pipelines 🗌
Pneumatics/Controls
Tanks 🗌
Valves □
Wells □
Other

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☐ Production ☐ Processing ■ Transmission and Distribution

Partners reporting this PRO: Columbia Gulf Transmission

Other related PROs:

## **Technology/Practice Overview**

#### **Description**

Low quality natural gas can lead to excessive filtration unit liquid recovery and transmission line cleanings at compressor stations. A partner has reported reducing methane and VOC emissions associated with these maintenance practices by requiring improvements in the quality of gas received from producers.

To enact a methane quality improvement, the operator obtained revised gas processing and compression agreements requiring reduced levels of gas contaminants such as particulates, water and gas liquids. This limited the amount of emissions associated with the gas filtration system operation, in particular, methane emissions from gas liquids storage tanks.

Methane Savings
500 Mcf/yr
Costs
Capital Costs (including installation)
None
Operating and Maintenance Costs (Annual) $\sim \$100 \mod \$100\$1,000 \implies \$1,000$
Payback (Years)
□ 0-1 □1-3 <b>■</b> 3-10 □>10

#### **Principal Benefits**

Reducing methane emissions was:

☐ A primary justification for the project ■ An associated benefit of the project

#### **Operating Requirements**

The implementation of this practice requires a new agreement between the gas producer and the transporter or enforcement of existing gas quality specifications.

#### **Applicability**

Any compressor facility directly receiving production gas and experiencing excessive liquids filtration, line pigging or receiving natural gas of lower than desired quality may benefit from improving their gas quality specifications.

### **Methane Emission Reductions**

Methane emissions occur due to the venting of filtration liquid atmospheric storage tanks. One partner has reported methane reductions of over 500 Mcf for one year.

## **Economic Analysis**

#### **Basis for Costs and Savings**

Methane emission reductions of 500 Mcf/yr is based on partner reported saving in a 600 psig system.

#### Discussion

Facility maintenance costs and reduced VOC emissions will be lower with reduced liquid loading on the filtration unit. Methane savings are significant, but not a primary justification.